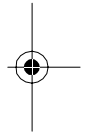
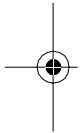


Cat. No. 32-1107

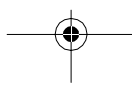
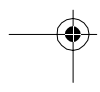
## OWNER'S MANUAL

Please read before using this equipment.

# PA ELECTRONIC REVERB CONTROL



# Radio Shack



## FEATURES

Your Radio Shack PA Electronic Reverb Control is a sophisticated audio device that can add exciting special effects to your recordings and live performances. You can use it with a tape deck, a PA system, or an electronic instrument, such as an electric guitar or a synthesizer.



Its features include:

**DELAY, REPEAT, and DEPTH Controls** — let you vary the time between the original sound and the delayed sound, vary the number of echoes created by the original sound, and vary the strength of the delayed sound with respect to the original sound.

**Dual Power Capability** — lets you power your reverb control from either a 9-volt battery or from an AC adapter.

**Battery Low Indicator** — lets you know when the battery needs to be replaced.

**Warning:** To prevent fire or shock hazard, do not expose this product to rain or moisture.

	<b>CAUTION</b> RISK OF ELECTRIC SHOCK. DO NOT OPEN.	
<b>CAUTION:</b> TO REDUCE THE RISK OF ELECTRIC SHOCK, DO NOT REMOVE COVER OR BACK. NO USER-SERVICEABLE PARTS INSIDE. REFER SERVICING TO QUALIFIED PERSONNEL.		



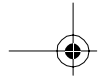
This symbol is intended to alert you to the presence of uninsulated dangerous voltage within the product's enclosure that might be of sufficient magnitude to constitute a risk of electric shock. Do not open the product's case.



This symbol is intended to inform you that important operating and maintenance instructions are included in the literature accompanying this product.

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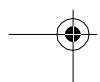
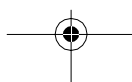
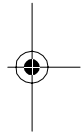
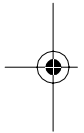


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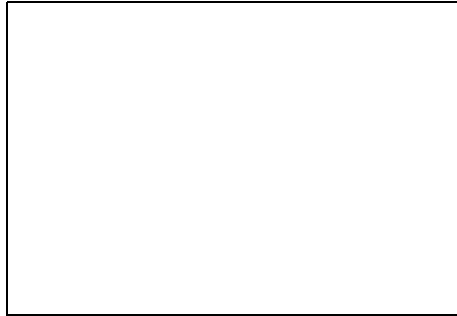


## POWERING THE REVERB CONTROL

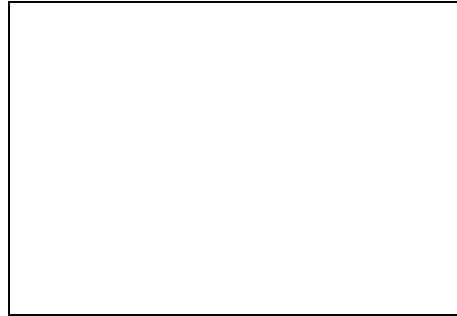
### USING BATTERY POWER

You can power the electronic reverb control from a 9-volt battery (not supplied). For the best results and longest battery life, we recommend an alkaline battery (such as Radio Shack Cat. No. 23-553).

1. Use a flat-blade screwdriver to loosen the battery compartment cover's screw and remove the cover.

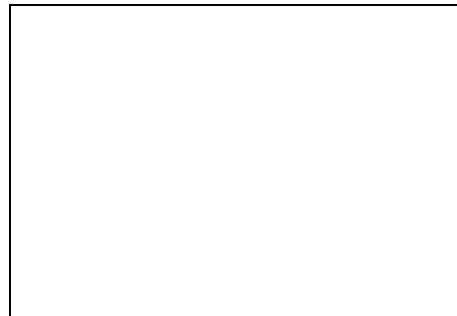


2. Attach the battery snap in the battery compartment to the 9-volt battery's terminals. Then place the battery in the compartment.



3. Replace the cover and tighten the battery compartment cover's screw.

Replace the battery when the BATTERY LOW indicator on the reverb control's upper right corner lights.



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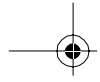
## USING AC POWER

You can power the reverb control from AC power using a 9-volt AC adapter, such as Radio Shack Cat. No. 273-1455.

**Caution:** The recommended AC adapter supplies 9 volts DC and delivers 300 milliamps. Its plug properly fits the reverb control's **DC 9V** jack and its center tip is set to negative (–). Using an adapter that does not meet these specifications could damage the electronic reverb control or the adapter.

(illus)

1. Insert the AC adapter's barrel plug into the **DC 9V** jack on the back of the reverb control.
2. Plug the AC adapter's power module into a standard AC outlet.



## CONNECTIONS

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### CONNECTING THE INPUTS

**Note:** Use shielded audio cables with phono plug-to-phono plug connectors (such as Radio Shack Cat. No. 42-2367).

(illus)

1. Connect the output of a cassette deck, pre-amplifier, or other line-level source to the reverb control's **LINE IN** jack.
2. Connect a microphone's 1/4-inch (6.35 mm) plug to the reverb control's **MIC IN** jack.

You can use **LINE IN** and **MIC IN** separately or together. For example, you can talk through the microphone input while playing recorded music through the line input.

(illus)

## CONNECTING THE OUTPUTS

1. Connect the reverb control's **LINE OUT** jack to the line input or auxiliary input of your cassette deck.
2. Connect the reverb control's **MIC OUT** jack to the line input or auxiliary input of your receiver/amplifier or PA amplifier.

You can use **LINE OUT** and **MIC OUT** separately or together. For example, you can record through the line output while listening to your speakers through the microphone output.

(illus)

## CONNECTING AN ELECTRONIC INSTRUMENT

You can connect your electric guitar or electronic synthesizer to your electronic reverb control.

1. Connect your instrument's output to the **MIC IN** jack on the back of the reverb control.
2. Use a shielded audio cable to connect the reverb's **MIC OUT** jack to the microphone input of your receiver/amplifier or PA amplifier.

You can listen to the reverb control's output on your receiver/amplifier's speakers while recording the same signal directly from the **LINE OUT** jack.

(illus)



## **OPERATING THE REVERB CONTROL**

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Your electronic reverb control has three basic controls — **DELAY**, **REPEAT**, and **DEPTH**. You can use these controls in different combinations to create many sound variations.

(illus)

### **DELAY**

The **DELAY** control changes the amount of time between the original sound and the delayed sound. You can vary this time from about 5 milliseconds ( $\frac{5}{1000}$ ths of a second) at a control setting of **0**, to 95 milliseconds at a control setting of **10**.

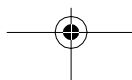
### **REPEAT**

The **REPEAT** control varies the number of echoes created by the original signal. The number of echoes that you can create depends on the strength of the original signal.

### **DEPTH**

The **DEPTH** control varies the strength of the delayed sound in relation to the original sound.

For example, with **DEPTH** set to maximum (**10**), the strength of the delayed sound is almost equal to the original sound. With **DEPTH** set to minimum (**0**), you hear only the original sound.





## FAVORITE EFFECTS

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### REVERBERATION

You can reverberate (delay) sounds to simulate the live sound of a large auditorium by using a short-to-moderate delay time (**DELAY** control setting of **3-6**).

### ECHO

The echo effect is a sound that is repeated at specific intervals with each repetition diminishing in volume. You can echo sounds by using a relatively long delay time (**DELAY** control setting near **10**). You can also vary the **REPEAT** and **DEPTH** settings to achieve the desired effect.

### FLANGING

You can flange (distort) sounds by using a relatively short delay time (**DELAY** control setting of **0** to **4**) while varying the **DEPTH** control from minimum to maximum. Set **REPEAT** at **0**.

**Note:** The flange effect was originally achieved by applying varying amounts of hand pressure to the flange of a tape reel during recording or playback.

### DOUBLING

You can double sounds to create an effect similar to overdubbing or recording one sound on top of another, by using a short-to-moderate delay time (**DELAY** control setting of **3** to **7**). Set **REPEAT** at **0**, and the **DEPTH** control at high (**8** to **10**) and keep it constant.

### SLAP-BACK

The slap-back effect (similar to an echo) is a sound that is repeated once and the volume is not diminished. You can slap-back (repeat) sounds to create an effect similar to the sharp, hollow echo of a chamber.

Slap-back uses a **DELAY** control setting of 60-80 milliseconds (a setting of about **8**). You can vary the **REPEAT** and **DEPTH** controls to enhance this effect.

## CARE AND MAINTENANCE

Your Radio Shack PA Electronic Reverb Control is an example of superior design and craftsmanship. The following suggestions will help you care for your reverb so you can enjoy it for years.



Keep the reverb control dry. If it gets wet, wipe it dry immediately. Liquids might contain minerals that can corrode the electronic circuits.



Use and store the reverb control only in normal temperature environments. Temperature extremes can shorten the life of electronic devices, damage batteries, and distort or melt plastic parts.



Handle the reverb control gently and carefully. Dropping it can damage the circuit boards and can cause it to work improperly.



Keep the reverb control away from dust and dirt, which can cause premature wear of parts.



Wipe the reverb control with a damp cloth occasionally to keep it looking new. Do not use harsh chemicals, cleaning solvents, or strong detergents to clean it.



Use only a fresh battery of the required size and type. Always remove old or weak batteries. They can leak chemicals that destroy electronic circuits.

Modifying or tampering with the Electronic Reverb Control's internal components can cause a malfunction and might invalidate its warranty. If your reverb control is not performing as it should, take it to your local Radio Shack store for assistance.

## SPECIFICATIONS

### Input Impedance:

MIC ..... 0.4 mV 600 Ohms  
LINE ..... 100 mV 42 Kohms

### Output level (Phono Type):

MIC ..... 100 mV  
LINE ..... 100 mV

### Output Level (MIC Type) at 400 mV Output:

MIC ..... 7 mV  
LINE ..... 7 mV

### Distortion at 400 mV (Output):

MIC ..... Less Than 0.2 %  
LINE ..... Less Than 0.2 %

### Signal-to-Noise Ratio at 400 mV Output:

MIC ..... Better than 50 dB  
LINE ..... Better than 55 dB

### Frequency Response @ -3 dB

MIC ..... 20 Hz-17 kHz  
LINE ..... 15 Hz-30 kHz

Delay Time ..... 5-95 m/Sec

### Power Requirements:

DC ..... One 9V Battery  
AC ..... AC Adapter (Cat. No. 273-1455)

Dimensions (HWD).....  $1\frac{5}{8} \times 10\frac{1}{2} \times 5\frac{7}{8}$  Inches  
(41 × 267 × 149 mm)

Weight ..... 1 lb. 15.7 oz. (898.7 g)

Specifications are typical; individual units might vary. Specifications are subject to change and improvement without notice.

#### RADIO SHACK LIMITED WARRANTY

This product is warranted against defects for 1 year from date of purchase from Radio Shack company-owned stores and authorized Radio Shack franchisees and dealers. Within this period, we will repair it without charge for parts and labor. Simply **bring your Radio Shack sales slip** as proof of purchase date to any Radio Shack store. Warranty does not cover transportation costs. Nor does it cover a product subjected to misuse or accidental damage.

EXCEPT AS PROVIDED HEREIN, RADIO SHACK MAKES NO EXPRESS WARRANTIES AND ANY IMPLIED WARRANTIES ARE LIMITED IN DURATION TO THE DURATION OF THE WRITTEN LIMITED WARRANTIES CONTAINED HEREIN. Some states do not permit limitation or exclusion of implied warranties; therefore, the aforesaid limitation(s) or exclusion(s) may not apply to the purchaser.

This warranty gives you specific legal rights and you may also have other rights which vary from state to state.

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**Fort Worth, Texas 76102**

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